Unit 3: CITIES OF THE FUTURE

TEST 1

			phose underlined part differs	
from that of the other three	=			
	B. article	-	· ·	
Question 2: A. cycle	B. priva <u>c</u> y	C. community	D. <u>c</u> entre	
			hat differs from the other three in	
the position of stress in each				
Question 3: A. sensor	B. urban	C. dweller	D. advice	
Question 4: A. efficient	B. livable	C. negative	D. interesting	
Mark the letter A, B, C, or L	on your answer sho	eet to indicate the correct	answer to each of the following	
questions.				
Question 5: As cities become connectivity.	e smarter, city	will enjoy improved p	oublic services and greater	
A. neighbours	B. individuals	C. suburbs	D. dwellers	
Question 6: Now, the room	pleasant th	nanks to the fragrant bow.		
A. is smelling	B. was smelling	C. has smelled	D. smells	
Question 7: Automated system	ems will help busines	sses more effic	iently, saving time and resources.	
A. provide	B. operate	C. predict	D. include	
Question 8: Access to green	spaces is essential for			
	B. traffic			
Question 9: A strong	of community is	essential for creating a sur	pportive environment in the city	
A. attraction				
			B, C, or D on your answer sheet	
to indicate the correct option	<u> </u>	<u> </u>		
	Welcome to Sma	artCity - Your Future Hor	ne!	
Smart Living: (10)enjoyable.	_ homes with cutting-c	edge technology designed to	make life effortless and	
♣ Green Spaces: Enjoy fresh	air and nature with (11)parks and green	corridors throughout the city.	
Connected Community: S	tay connected with ultr	ra-fast internet and vibrant c	ommunity events.	
Sustainable Transport: Tr streets.	avel with ease using (1	2) buses, smart bi	kes, and pedestrian-friendly	
Join us at SmartCity - The Fu Visit www.smartcity-future.com				
Question 10: A. Impact	B. Suffer	C. Experience	D. Sell	
Question 11: A. a	B. an	C. the	D. Ø (no article)	

B. eco-friendly

C. reusable

D. lasting

Question 12: A. private

Announcement: Urban Sustainability Conference 2024

We are excited to announce the upcoming **Urban Sustainability Conference 2024**, taking place on **September 15-17**, **2024**, at the **GreenTech Convention Center**.

This event will bring together city planners, environmental experts, and tech (13)_______ to discuss the future of (14)______ urban living. Topics will include smart city development, green energy solutions, and eco-friendly transportation.

Don't miss this opportunity to be part of (15)_____ the cities of tomorrow.

Register now at www.urbansustain2024.com.

For more information, please contact us at info@urbansustain2024.com.

We look forward to seeing you there!

Question 13: A. innovateB. innovationC. innovativeD. innovatorsQuestion 14: A. sustainableB. impossibleC. industrialD. seriousQuestion 15: A. shapeB. shapingC. to shapingD. to shape

Mark the letter A, B, C, or D on your answer sheet to indicate the correct arrangement of the sentences to make a meaningful paragraph/letter in each of the following questions.

Question 16:

- a. This connectivity ensures that residents can manage their homes, work, and social lives with ease.
- b. Smart cities are designed to be highly connected, integrating various technologies into everyday life.
- c. Moreover, the efficiency of smart cities contributes to a more sustainable and eco-friendly urban environment.
- d. As a result, residents of smart cities can experience a higher quality of life with less environmental impact.
- e. One of the most significant advantages of living in a smart city is the seamless integration of technology.

A.
$$a - b - d - e - c$$

C.
$$e - b - a - c - d$$

D.
$$a - d - b - c - e$$

Ouestion 17:

- a. Smart cities are designed to enhance the quality of life for their residents by using cutting-edge technology and sustainable practices.
- b. I strongly believe that these innovations will shape the future of urban living, making cities more efficient and eco-friendly.
- c. Dear future residents,
- d. Furthermore, smart cities offer improved public services, better transportation, and greater energy efficiency.
- e. Thank you for considering making this smart choice for your future home.
- f. By choosing to live in a smart city, you are investing in a lifestyle that is both convenient and responsible.

Mark the letter A, B, C, or D on your answer sheet to indicate the correct option that best fits each of the numbered blanks from 18 to 23.

The cities of the future (18)_____ from the urban landscapes we know today. As we look ahead, several key characteristics are expected to define these next-generation urban centers:

Future citi	es will (19) that integrates everything from	transportation to end	ergy management.		
	, AI-driven systems, and the Internet of Things (IoT				
	nimizing waste and optimizing urban living.				
Environme	ental sustainability will be at the core of future city d	levelopment. (20)	will prioritize		
	sources, reduce carbon footprints, and implement wa				
	composting. Urban planning will include extensive	= -	-		
friendly buildi					
In future ci	ties, connectivity will extend beyond just the interne	et. Seamless commu	nication between		
	structure, and people will create a highly interconnection				
	d emergency services will be more responsive and e		•		
and automated			C		
Cities of th	e future will be built to withstand and (22)	by climate change,	natural disasters, and		
	en events. This resilience will be achieved through				
	and comprehensive disaster preparedness strategies	-			
Above all,	future cities will focus on improving the quality of l	life for their inhabita	nts. This will include		
	hysical environment (23) Cities will pron				
	of cultural and recreational activities, and prioritize				
	R	Reference: energyinfo	rmatics.springeropen		
Question 18:	A. set to be dramatically different	B. are set to be different dramatically			
	C. be set different dramatically	D. are set to be dramatically different			
Question 19:	A. equip with advanced technology				
	B. be equipped with advanced technology				
	C. have equip with advanced technology				
	D. equip with significantly advanced technology				
Question 20:	A. These cities B. That city	C. This city	D. Those cities		
Question 21:	A. to enhance air quality and biodiversity				
	B. enhance air quality and biodiversity				
	C. with enhance air quality and biodiversity				
	D. to enhance air and biodiversity of quality				
Question 22:	A. adapt to the challenges pose	B. adapted to the c	hallenges pose		
	C. be adapted to the challenges pose	D. adapt to the cha	llenges posed		
Question 23:	A. neither social and cultural aspects				
	3. but also social and cultural aspects				
	C. either but also social and cultural aspects				
	D. both but also social and cultural aspects				
•	owing passage and mark the letter A, B, C, or D on	your answer sheet t	o indicate the correct		
_	st fits each of the numbered blanks from 24 to 28.				
	se of greenhouse gases, debris in our oceans, and tra				
	e negative effects on the environment. Energy-effici				
	ergy sources are providing cities with new tools to sl	=	-		
	air quality sensors around a city, for instance, can p	_			
	fy pollution causes, and deliver data analytics offici		· ————		
plans. These s	ensors can help lay a foundation for reducing air po	Hution in even the m	ost populated cities,		

something (26)______ is sure to save lives since medical problems related to pollution claim millions of lives each year. (27)_____, the City of Chicago, installed nodes to serve as a "fitness tracker" for the

help(28)_____ heavy vehicle traffic, identify standing water in real time to prevent property damage and

city, measuring factors that impact livability in Chicago such as climate, air quality and noise to

illness and observe which areas of the city are heavily populated by pedestrians at different times of day to suggest safe and efficient routes for walking to improve pedestrian safety.

Adapted from

plantemoran.com

Question 24: A. founders **B.** assistants **D.** natives C. sensors Question 25: A. much B. many **D.** another C. every **Question 26: A.** that **B.** whom C. whose D. what **Question 27:** A. Such as **B.** However C. Therefore D. For example Question 28: A. affect **B.** detect C. cover D. replace

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the correct answer to each of the questions from 29 to 33.

While smart cities offer numerous benefits to city dwellers, **they** also present several challenges that must be carefully considered.

One of the most **pressing** issues in a smart city is the secure management of sensitive information. To make informed decisions, a variety of data—ranging from energy consumption to personal details like CCTV footage—must be collected. However, this raises concerns about data security and privacy. The local government must ensure that this information is handled with the highest level of security and is resilient against cyber attacks. Additionally, the collection and use of personal data by authorities can lead to increased social control, which poses significant privacy concerns.

Many companies in the smart city sector are relatively new, with business models that have not yet been fully tested or proven profitable. Despite significant investment from cities, these companies need to establish sustainable business practices to ensure long-term viability. Furthermore, the operation of smart cities requires a workforce equipped with specialized skills, which are currently in short supply. To address this gap, cities need to invest in training and educational programs to prepare workers, government officials, and citizens for the demands of a smart city.

Transforming an urban area into a smart city requires substantial investment. Buildings need to be renovated or fitted with IoT sensors and high-speed internet connections, and public transport and infrastructure must be upgraded with smart technology. These improvements come with high costs, and cities must carefully evaluate what is necessary to achieve the desired transformation.

Reference: smart-cre

Question 29: What would be the best title for the passage?

- A. The Challenges of Smart Cities
- **B.** The Future of Urban Living
- **C.** How to Build a Smart City
- **D.** The Impact of Technology on Modern Cities

Question 30: What does the word "pressing" in the passage mostly mean?

- A. simple B. urgent C. simple D. general
- Question 31: What is a significant challenge mentioned in the passage regarding smart city companies?
 - **A.** Their reliance on outdated technology
 - **B.** Their need for more financial investment
 - C. Their unproven and untested business models
 - **D.** Their lack of government support

- Question 32: According to the passage, what is a critical requirement for smart cities to function properly?
 A. Universal access to the internet
 B. Sufficient investment in infrastructure
 C. A workforce with specialized skills
- **D.** A reduction in government control **Question 33:** What does the word "**they**" in paragraph 1 refer to?
 - A. city dwellers B. smart cities C. benefits D. challenges

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the correct answer to each of the questions from 34 to 40.

London, the capital of the United Kingdom, is recognized as the smartest city in the world. This achievement is largely due to the "Smarter London Together" initiative led by Mayor Sadiq Khan, **which** outlines goals for enhancing the city's infrastructure. The strategy focuses heavily on improving traffic flow and reducing congestion through technologies such as the congestion charge, contactless payment, and the ultra-low emission zone. Data collected from cameras and sensors helps manage these systems. Additionally, London encourages walking by providing an app with walking routes, aiming for 80% of journeys to be on foot, by bicycle, or via public transport. The city also supports businesses in the smart city sector by making **extensive** city data available for developing new technologies.

New York, the most populous city in the United States, is another leader in smart city development. Facing challenges related to environmental sustainability, New York launched the Smart Cities Programme, upgrading over 600 government buildings with energy-saving LED lighting systems. Smart meters were also installed in various properties to maintain sustainable water use, with sensors that alert residents to leaks. Air-quality sensors and an **optimized** traffic control system further enhance the city's environment. New York also supports smart city innovations through the Smart Cities Innovation Partnership, offering up to \$1 million in funding to companies developing new technologies.

Paris ranks as the third smartest city globally according to the IESE Index. The city has made significant strides toward becoming a smart and sustainable metropolis, particularly in response to issues like low air quality, limited green spaces, and high congestion. To improve air quality, Paris promotes electric cars and public transport, with Renault testing an induction charging system for easier car charging. Paris is also transforming into a "15-minute city," where all essential services are within a 15-minute walk. Efforts to green the city include the creation of the largest urban farm, with plans for more parks and roof gardens.

Reference: smart-cre

			Hejerene	c. sman v er e
Question 34: What would	be the best title for	the passage?		
A. The Role of Tec	hnology in Modern	Cities		
B. The Developmen	nt of Smart Cities			
C. How Cities are I	Becoming Smarter			
D. The Future of U	rban Innovation			
Question 35: The word "ex	xtensive" in paragra	aph 1 is opposite in	meaning to	
A. Limited	B. Wides	spread	C. Unique	D. Optional
Question 36: What is the p	orimary purpose of	the Smart Cities In	novation Partnership in	New York?
A. To create urban	farms			
B. To encourage the	e use of electric veh	nicles		
C. To provide finar	icial support for dev	veloping smart tech	nnologies	
D. To improve air o	_l uality			
Question 37: The word " or	ptimized " in parag	graph 2 is closest in	n meaning to	_•
A. Improved	B. delayed	C. reduced	D. complicat	ted

Question 38: What does the word "which" in paragraph 1 refer to?

A. Smarter London Together

B. Mayor Sadiq Khan

C. the United Kingdom
D. London

Question 39: Which of the following statements is **NOT** true according to the passage?

- **A.** London uses cameras and sensors to help manage traffic congestion.
- **B.** New York has upgraded over 600 government buildings with LED lighting systems.
- C. Paris has focused on reducing air quality by encouraging public transport and electric cars.
- **D.** The "Smarter London Together" initiative aims to improve the city's infrastructure.

Question 40: Which of the following can be inferred about the traffic control systems in both London and New York?

- **A.** They primarily rely on human intervention.
- **B.** They are completely independent of technological inputs.
- **C.** They use technology to manage and optimize traffic flow.
- **D.** They have not been fully implemented yet.